

REPORT  
OF THE  
DEPARTMENT OF HEALTH  
OF THE  
PANAMA CANAL  
FOR THE  
MONTH OF MAY, 1915

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CHAS. F. MASON

Lieut. Colonel, Medical Corps, United States Army  
Chief Health Officer, Balboa Heights, Canal Zone

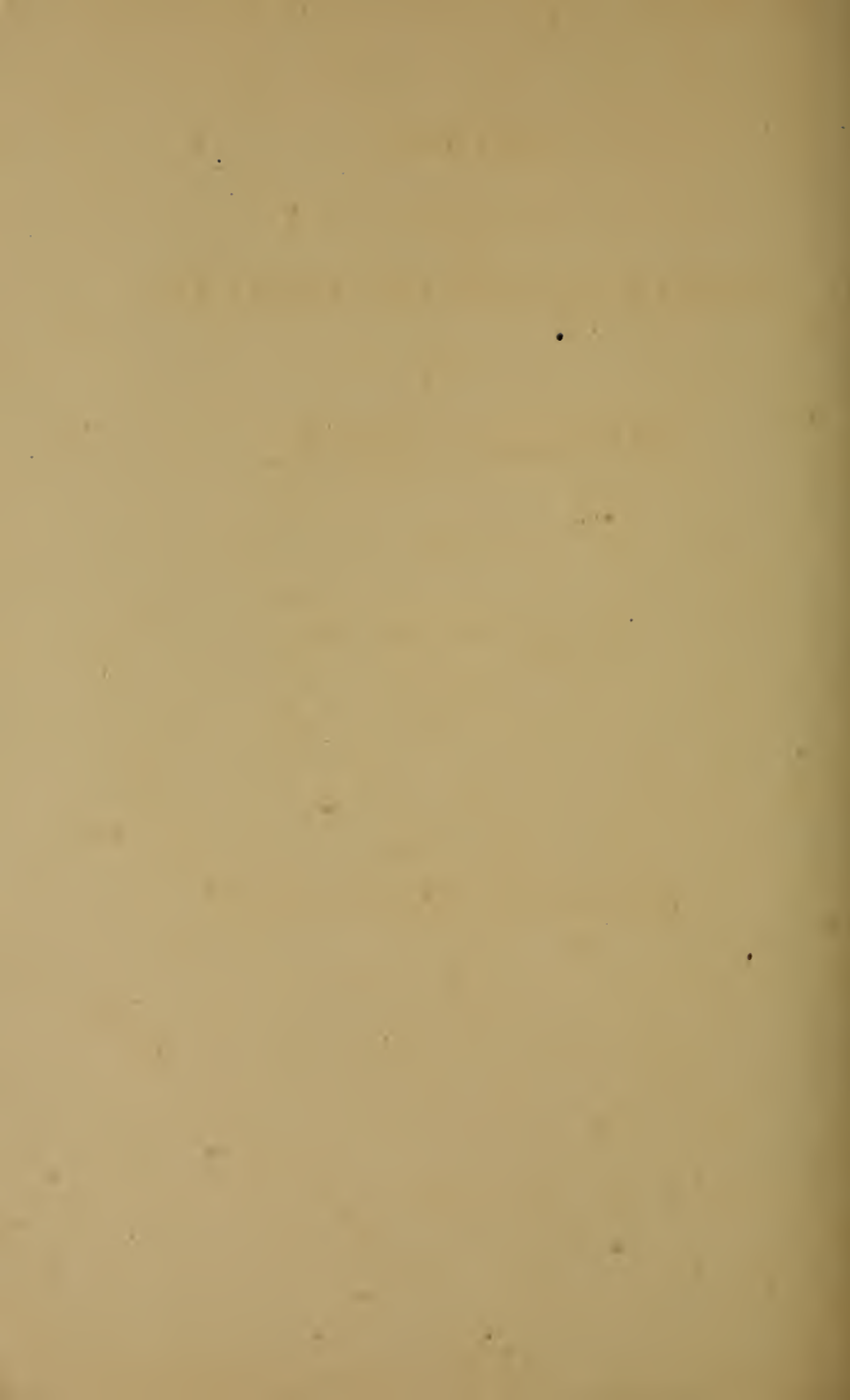
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WASHINGTON  
1915







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## LETTER OF TRANSMITTAL.

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THE PANAMA CANAL, CANAL ZONE,  
DEPARTMENT OF HEALTH,  
*Balboa Heights, June 9, 1915.*

Lieut. Col. CHESTER HARDING,  
*Acting Governor of the Panama Canal,  
Balboa Heights, Canal Zone.*

SIR: I have the honor to submit the following report of the operations of the department of health for the month of May, 1915.

Very respectfully,

WM. F. MASON,  
*Chief Health Officer.*

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### GENERAL REMARKS.

No cases of yellow fever, smallpox, or plague have originated on or were brought to the Isthmus during the month.

### VITAL STATISTICS.

#### EMPLOYEES.

The health of the employees remained good during the month. The number of names on the rolls for the preceding month was 34,600.

The total number of admissions to hospitals and quarters was 886, a rate of 307.28 per thousand, as compared with 282.02 for the preceding month and 407.92 for the corresponding month of last year.

The total number of deaths from all causes was 13; of these 7 died from disease, or 2.43 per thousand, as compared with 1.76 for the preceding month and 5.74 for the corresponding month of last year.

The constantly noneffective rate was 9.95, compared with 9.85 for the preceding month and 11.65 for the corresponding month of last year.

The total admission rate for malaria, hospitals and quarters, was 33.64, compared with 28.48 for last month, and the total noneffective rate 0.97, compared with 0.95 for last month; each of these rates being lower than for the same month last year. The diseases, next to malaria, causing the highest admission rates, in the order of their numerical importance, were: Venereal diseases, diseases of the digestive system, nervous system, and nonvenereal diseases of the genito-urinary system. These five classes of diseases caused 50 per cent of all admissions to hospitals.

There were no admissions from typhoid fever, as against a rate of 0.35 for the previous month and 0.75 for the corresponding period of last year.

#### EFFECTS OF RACE.

The admission rate to hospitals and the death rate for disease for black employees were 102.70 and 2.83 per thousand, as compared with 307.19 and no deaths for white employees. The noneffective rate for disease and injuries for black employees per thousand was 8.39, as compared with 19.29 for white employees.

The admission rate to hospitals and quarters for malaria was 21.83 per thousand for blacks, as compared with 104.84 for whites.

There were no deaths among Americans, as compared with a rate of 37.68 for Europeans, due to external causes. The admission rate to hospitals for disease for the latter was 866.56, compared with 224.04 for Americans. The admission rate for malaria to hospitals and quarters was 414.44 for Europeans, as compared with 58.81 for Americans.

#### DEPORTATIONS.

There were 9 deportations accomplished during the month, 7 employees and 2 nonemployees; for disease 8, and for injury 1.

#### CANAL ZONE.

The population of the Canal Zone is 34,560, among whom there was a total of 36 deaths; of these 30 deaths were from disease, giving a rate of 10.41 per thousand, as compared with 5.71 for the preceding month and 12.93 for the corresponding month of last year. Of the total deaths from disease the percentage under 5 years was 60, compared with 69 last month.

There were 44 births reported, giving a rate of 15.28 per thousand. Of these births 10 were of white and 34 of colored children. There were 12 deaths of children under 1 year of age, all of whom were colored, giving an infant mortality of 353 for colored children, with a general average of 273. The percentage of stillbirths to total births was 10.

#### PANAMA CITY.

The population of the city is 60,373, among whom there was a total of 132 deaths. Of these 127 deaths were from disease, giving a rate of 25.24 per thousand, as compared with 25.44 for the preceding month and 32.31 for the corresponding month of last year. Of the total deaths from disease the percentage under 5 years of age was 63, compared with 51 last month. The principal causes of death showing an increase as compared with April were: Cancer 3, as against 1 last month; organic disease of the heart 9, as compared with 6 for April; and pneumonia 22, as against 18 for the preceding month.

There were 255 births reported, giving a rate of 50.68 per thousand. The infant mortality was 208 per thousand. The percentage of stillbirths to total births was 8.

## COLON.

The population of the city is 29,331, among whom there were 47 deaths; of these, 44 deaths were from disease, giving a rate of 18.00, as compared with 19.64 for the preceding month and 30.25 for the corresponding month of last year. Of the total deaths from disease, the percentage under 5 years was 37, compared with 52 last month.

The principal causes of death showing an increase as compared with April were: Pellagra, 2, as against none for the preceding month, and pneumonia, 2, compared with 1 last month.

There were 65 births reported, giving a rate of 26.59 per thousand. The infant mortality was 200 per thousand. The percentage of stillbirths to total births was 6.

## HOSPITAL DIVISION.

## ANCON HOSPITAL.

During the month the average number of patients constantly in hospital was 460.25. The per capita cost of patients in hospital, proper, was \$1.94 gross, and \$0.897 net. The per capita cost of patients in the insane asylum was \$0.465.

## BOARD OF HEALTH LABORATORY.

The following work in addition to routine was performed by the Board of Health Laboratory during the month.

The only work of an investigative nature completed in May was a study of tuberculosis in the inhabitants of the Panama Canal Zone, bearing chiefly on its incidence, duration, and type of distribution in the negro race. A synopsis of the findings follows:

A review of the pathological records at the Ancon Board of Health Laboratories covering the period of time beginning December 11, 1909, and ending May 6, 1915, reveals 452 protocols on fatal cases of tuberculosis; 163 protocols in which tuberculosis was a coincident factor and 88 specimens of surgical tissue which contained a tuberculous process. Six of the individuals from whom the surgical specimens were taken were later included in the autopsy lists.

The percentage of fatal cases of tuberculosis in this study was 19.41, while in the anatomical lists preceding this period of time it is represented by 8.20. In spite of the fact that variations in the distribution of the zone population have favored the receipt of more cases at this laboratory during the later period of time, it does not explain the great increase in the number of cases here represented, for the hospital in the city of Panama has also shared in the receipt of these cases.

It would appear that tuberculosis is increasing among the negroes and chiefly among those whose stay on the Isthmus has covered several years in time.

Contrary to the belief that tuberculosis is less common in the Tropics than in other climates, this review shows that the disease is common on the Isthmus and that it is increasing among the negroes. Its clinical course in these negroes can be better represented by months rather than by years, as is the case in members of the white race. The disease becomes more often widely disseminated in the negro than in the white race.

Instances of arrested or healed foci in the negro are far less frequent than in the white race. Pulmonary tuberculosis becoming widely disseminated is the common type of the disease in these people. Bone, joint, and cutaneous tuberculosis is far less common among negroes and mestizos of the Isthmus than in the white race.

There is some evidence to support the belief that many of the cases in this group acquired their infection on the Isthmus.

When the diseases of this region, which were disseminated by insects, were brought under control by the methods of sanitation employed, it soon became apparent that tuberculosis, as a fatal factor, led all other single factors as a cause of death, just as it does in the cooler climates of the world.

A primitive race, plus overcrowding, poverty, and ignorance, are the factors which probably explain its presence on the Isthmus and in the terminal cities of the Canal Zone.

Where permanent colonization of the Tropics takes place and business association brings together the various races, tuberculosis will no doubt be as important an economic factor as it is in the temperate climates.

#### FARM FOR DISABLED.

Owing to the consolidation of the farm with the insane asylum no separate cost figures are shown this month.

#### INSANE DEPARTMENT.

Seven patients were admitted during the month. Three male patients were deported to British Guiana, Trinidad, and Tobago, respectively.

The new asylum buildings are practically finished, with the exception of the installation of a dumb-waiter leading from the kitchen to female patients' messhall, painting the roofs, and placing the fence.

The sewing room has turned out a large amount of work for Ancon Hospital, such as surgical pads, sponges, operating gowns, etc., besides mending for the medical storehouse.

The asylum laundry has been put in operation again, thus taking care of the greater part of the asylum laundering. Only flat work, such as sheets, etc., are still being sent to the Ancon Laundry.

Grading the grounds continues to be done by a squad of male patients. Another squad is at present occupied in preparing the soil in the garden for the planting of yucca and other tubers.

Three patients employed in the carpenter shop have fabricated various articles useful in the wards, such as tables, benches, floor scrapers, etc.

The general physical health of the patients continues good.

## CHRONIC WARD.

There were 27.13 chronic and incurable patients constantly cared for during the month. The cost per patient per day was \$0.257.

Detailed statistics are shown in Table XIII.

## COLON HOSPITAL.

The average number of employees constantly sick was 21.66. The average number of days' treatment per employee was 9.70. The per capita cost of patients was \$2.70 gross and \$1.88 net.

Detailed statistics are shown in Table XIV.

## PALO SECO LEPER ASYLUM.

The number of patients under treatment at the end of the month was 51, the same as for the preceding month. The per capita cost per patient was \$0.83.

Detailed statistics are shown in Table XV.

## SANTO TOMAS HOSPITAL.

During the month a total of 1,381 patients was treated, 19 less than for the preceding month. The daily average of patients in hospital was 456, as compared with 462 for April, and the total number of hospital days was 14,147, as compared with 13,860 for the preceding month. Fifty-four deaths have occurred, with tuberculosis, organic disease of the heart, and pneumonia the chief causes in the order named.

Detailed statistics are shown in Table XVI.

## DISTRICT DISPENSARIES.

The dispensary having the highest admission rate for malaria was Gatun, with an average weekly percentage of 0.16; that having the lowest was Culebra, with a percentage of 0.04.

Detailed statistics are shown in Table IX.

## SANITATION—CANAL ZONE.

The employees' malaria rate in the zone was the lowest in the history of the canal, despite the establishment of the rainy season.

General sanitary conditions are good practically everywhere in the zone except in the negro localities about Paraiso, viz: Rio Grande, Hamilton Hill, Jamaica Town, and Spanish Town. These places are occupied mainly by negroes employed by the dredging division, and as the dredging is apt to continue for a long time, and as the town of La Boca has proved such a success, recommendation has been made that a similar "silver" town be built near Paraiso, and the insanitary places named be eliminated.



The following communicable diseases were reported during the month:

Measles.....	13
Mumps.....	7
Diphtheria.....	1
Malarial fever.....	75
Tuberculosis.....	15
Whooping cough.....	3

Detailed statistics are shown in Table XVII.

## SANITATION—PANAMA.

### COMMUNICABLE DISEASES.

The prevalence of malaria in the city has reached a minimum. Among the 15,000 Panama Canal employees, living in Panama city, generally in unscreened houses, there occurred during the month ending the 29th, only 7 cases. Figures available from the city hospital, Santo Tomas, show a corresponding decline in the remaining 45,000 inhabitants. Other communicable diseases were reported, as follows:

Measles.....	29
Chickenpox.....	2
Tuberculosis.....	3
Whooping cough.....	2
Leprosy.....	1

### VACCINATIONS.

The work of vaccination was resumed, and 2,593 vaccinations were performed during the month, using the local product vaccine.

Detailed statistics are shown in Table XVII.

## SANITATION—COLON.

*Care of fire refugees.*—Following the fire of April 30, in which 23 blocks of the business district were destroyed, there were about five thousand of the people of Colon without homes. Fortunately the city was not crowded and about two thousand were taken care of in existing buildings. That left something over three thousand people to be taken care of by the city.

*Shelter.*—The Army furnished 350 tents, and the Panama Railroad Co. 50 box cars. There were also numerous families living in shacks and on balconies. The tents were set up by the Army on Broadway Park and side lots from the Beach to Ninth Street. The box cars were placed on side tracks in double line from opposite Thirteenth Street to the Consumer's Laundry on Broadway. The shacks were erected on side lots along Broadway and were later demolished, the occupants being sheltered in the tents.

*Garbage disposal.*—Garbage cans were distributed along Broadway in front of the tents and the box cars. These are emptied twice daily and the garbage incinerated at the public dump.

*Washing.*—The Panama Railroad washhouse on G Street was untitled; it had long been in disuse, but the woodwork was

repaired, plumbing fixtures connected, and water connection made to a fire plug. There are 200 concrete washtubs in this building.

*Cooking.*—Each family has a small native charcoal stove to cook the meals in front of the tent.

*Bathing.*—Bathhouses were erected, one to each block, each containing six shower sprays. The house was constructed of 2 by 4 inch lumber framework and zinc sheeting. Each house has a partition, with one side for the use of women and the other for the men, indicating each by the words "women" and "men." The floor consisted of the concrete sidewalk and the water drained to the street storm sewer, the water supply being obtained from the fire plugs.

*Latrines.*—The first three days pit closets were used. In the meantime flush tank closets were connected to fire plugs and the sewage flushed into the storm sewer, the house being built similar to the bathhouse. The storm sewer does not extend to the district where the box cars are located and pit closets are in use, these being surrounded by zinc houses, and covered by box seats.

*Water supply.*—The corner fire plugs were tapped and water piped to the tents and box cars.

*Policing of camp.*—Dr. Baylis and nine hospital corps men from the Army have been in charge of policing the camp. Each man was given a section of the camp over which he had entire control, and authority to make arrests for sanitary nuisances. Special Foreman Braden and nine men have charge of the sanitation. The closets are oiled daily and all sanitary defects remedied.

*Dispensary.*—A dispensary was opened the first day and is still in operation. Fortunately the camp has been singularly free from disease, no serious illness has occurred, and no illness whatever due to the condition of the camp itself.

*Red Cross relief work.*—Sixteen thousand rations were issued by the Red Cross during the month under the direction of Dr. Hearne. Employment, rooms, and help generally were obtained for many destitute families by the efforts of Mrs. Murphy, of Ancon. Besides issuing rations the Red Cross has furnished many destitute women with laundry outfits, first payments on sewing machines, etc.

*Cleaning up Colon.*—The Panama Railroad extended tracks over the burnt area and in three weeks had the débris hauled away and the area cleaned.

*Fly breeding.*—There was considerable fly breeding over the burnt area and flies were greatly increased for a short period. However, since the area has been cleaned and sprayed with larvacide the number of flies has greatly decreased.

*Mosquito breeding.*—The number of adult anopheles mosquitoes caught and the number of breeding places found has increased over the number of last month. This is due to the change to the wet season. The hydraulic fill at Mount Hope caused the water to accumulate in the ditches above the fill and consequently more breeding places were found. Inspector Becker has taken on 10 extra men to keep the situation under control. The increase in malaria has been in proportion to the increased number of anopheles breeding places found.

*Stables.*—One stable was closed by order of this office for failing to comply with the sanitary regulations. The remaining stables that were required to institute certain improvements, such as concrete outside wall, new stalls, and new concrete flooring, are continuing the work.

The following communicable diseases were reported during the month:

Diphtheria.....	5
Malaria.....	24
Measles.....	2
Mumps.....	13
Trachoma.....	1
Tuberculosis.....	4
Typhoid fever.....	1
Whooping cough.....	1

There were 3,703 persons examined, of whom 1 received vaccination.

Detailed statistics are shown in Table XVII.

### QUARANTINE SERVICE.

The plague situation on the South American coast shows little if any improvement. On the Atlantic coast we are conducting careful inspection of ships from New Orleans and Cuba, as well as such arriving from South American ports. The French and Italian lines having ships for Colon are bringing very few passengers from European ports, and very careful inspection of passengers and crew is made upon such ships.

Violations of quarantine during the month have been noted in special reports. The Panama Government immigration law No. 32, of 1914, was made effective May 5, and 37 steerage passengers arriving that day from Jamaica were sent back on account of having insufficient funds.

As heretofore, masters of vessels, in transit through the canal particularly, wish to sign off undesirable members of the crew; this is permitted only after arrangements have been made for their deportation.

It is noted that on the Pacific side 83 vessels arrived during the month; the number of arrivals for the corresponding month last year was 30.

Six supplementary inspections were made at Balboa quarantine on vessels from plague ports; refumigation was carried out on four vessels. Two shipments of hay were fumigated in lighters under the direction of the quarantine officer.

Much annoyance has been caused at Balboa Quarantine Reservation on account of entrance upon the grounds of unauthorized visitors. Arrangements are being made for the construction of a fence, and as soon as this is put up this annoyance will cease.

The temporary boat landing at Balboa quarantine was practically destroyed on the 26th by stormy weather.

No disease of a quarantinable nature arrived at any of our ports during the month referred to.

Detailed statistics are shown in Table XVIII.



TABLE I.—ADMISSIONS, DEATHS, AND NONEFFECTIVE RATES FOR EMPLOYEES; DEATHS OF RESIDENTS OF PANAMA, COLON, AND THE CANAL ZONE.

## ABSOLUTE NUMBERS.

Color.	Number of employees.	Admissions to hospitals.			Deaths.			Noneffective from sickness.	
		Total.	Disease.	External causes.	Total.	Disease.	External causes.	Days treated.	Constantly non-effective.
May, 1915.									
White.....	4,922	162	126	36	2	.....	2	2,945	94.99
Colored.....	29,678	350	254	96	11	7	4	7,727	249.28
Total...	34,600	512	380	132	13	7	6	10,672	344.27
Apr., 1915.									
White.....	4,883	128	98	30	4	3	1	2,561	85.37
Colored.....	29,242	329	235	94	4	2	2	7,523	250.77
Total...	34,125	457	333	124	8	5	3	10,084	336.14
May, 1914.									
White.....	7,718	317	253	64	10	3	7	4,917	158.61
Colored.....	40,321	641	419	222	29	20	9	12,432	401.03
Total...	48,039	958	672	286	39	23	16	17,349	559.64

PROPORTIONATE NUMBERS.<sup>1</sup>

<i>May, 1915.</i>									
White.....	4,922	394.96	307.19	87.77	4.88	.....	4.88	.....	19.29
Colored.....	29,678	141.52	102.70	38.82	4.45	2.83	1.62	.....	8.39
Total...	34,600	177.57	131.78	45.79	4.51	2.43	2.08	.....	9.95
<i>Apr., 1915.</i>									
White.....	4,883	314.56	240.84	73.72	9.83	7.37	2.46	.....	17.49
Colored.....	29,242	135.01	96.44	38.57	1.64	.82	.82	.....	8.57
Total...	34,125	160.70	117.10	43.60	2.81	1.76	1.05	.....	9.85
<i>May, 1914.</i>									
White.....	7,718	492.87	393.36	99.51	15.54	4.66	10.88	.....	20.55
Colored.....	40,321	190.77	124.70	66.07	8.63	5.95	2.68	.....	9.94
Total...	48,039	239.30	167.86	71.44	9.74	5.74	4.00	.....	11.65

<sup>1</sup> Annual average per 1,000.

TABLE I.—ADMISSIONS, DEATHS, AND NONEFFECTIVE RATES FOR EMPLOYEES; DEATHS OF RESIDENTS OF PANAMA, COLON, AND THE CANAL ZONE—Continued.

## PROPORTIONATE NUMBERS—Continued.

Place.	Popula- tion.	Deaths.			Annual average per 1,000.		
		Total.	Dis- ease.	Ex- ternal causes.	Total.	Dis- ease.	Ex- ternal causes.
<i>May, 1915.</i>							
Panama.....	60,373	132	127	5	26.23	25.24	0.99
Colon.....	29,331	47	44	3	19.23	18.00	1.23
Canal Zone.....	34,560	36	30	6	12.50	10.41	2.09
Total.....	124,264	215	201	14	20.76	19.41	1.35
<i>Apr., 1915.</i>							
Panama.....	60,373	133	128	5	26.43	25.44	.99
Colon.....	29,331	54	48	6	22.09	19.64	2.45
Canal Zone.....	33,652	18	16	2	6.42	5.71	.71
Total.....	123,356	205	192	13	19.13	17.87	1.26
<i>May, 1914.</i>							
Panama.....	47,172	145	127	18	36.89	32.31	4.58
Colon.....	20,232	58	51	7	34.40	30.25	4.15
Canal Zone.....	54,755	70	59	11	15.34	12.93	2.41
Total.....	122,159	273	237	36	26.82	23.29	3.53

TABLE II.—DEATHS, BY AGE, COLOR, AND SEX.

Age.	White.			Colored.			Yellow.			Total.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Under 1 year.....	10	3	13	38	27	65	.....	.....	.....	48	30	78
1 to 4 years.....	1	4	5	18	13	31	.....	.....	.....	19	17	36
5 to 10 years.....	.....	1	1	.....	2	2	.....	.....	.....	.....	3	3
11 to 20 years.....	3	.....	3	4	7	11	.....	.....	.....	7	7	14
21 to 30 years.....	3	2	5	18	8	26	.....	.....	.....	21	10	31
31 to 40 years.....	1	1	2	10	12	22	.....	.....	.....	11	13	24
41 to 50 years.....	1	.....	1	6	6	12	.....	.....	.....	7	6	13
51 to 60 years.....	.....	.....	.....	4	1	5	.....	.....	.....	4	1	5
61 to 70 years.....	.....	1	1	3	3	6	.....	.....	.....	3	4	7
71 to 80 years.....	.....	1	1	.....	1	1	.....	.....	.....	.....	2	2
81 to 90 years.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	1	1
Not stated.....	.....	.....	.....	1	.....	1	.....	.....	.....	1	.....	1
Total.....	19	13	32	102	81	183	.....	.....	.....	121	94	215

TABLE III.—DEATHS, BY NATIONALITY.

Nations.	Em- ployees.	Nonem- ployees.	Total.
Antigua.....		4	4
Barbados.....	8	21	29
Colombia.....		5	5
Dominica.....		1	1
Ecuador.....		1	1
Greece.....		1	1
Grenada.....	1	1	2
Guadeloupe.....		1	1
Guiana, British.....	1	1	2
Jamaica.....	2	39	41
Nevis.....		1	1
Nicaragua.....		2	2
Martinique.....	1		1
Mexico.....		1	1
Panama.....		108	108
Peru.....		1	1
Spain.....		2	2
St. Lucia.....		3	3
Trinidad.....		1	1
United States.....		4	4
Venezuela.....		2	2
Unknown.....		2	2
Total.....	13	202	215

TABLE IV.—DEATH RATE AMONG AMERICANS ON THE ISTHMUS CONNECTED WITH THE PANAMA CANAL.

	Number of deaths.	Annual average per 1,000.
White employees from the United States (4,285):		
Disease.....		
External causes.....		
All causes.....		
White women and children from the United States (3,788):		
Disease.....		
External causes.....		
All causes.....		
White employees and their families from the United States (8,073):		
Disease.....		
External causes.....		
All causes.....		
Total number of Americans on the Canal Zone (14,217):		
Disease.....	2	1.69
External causes.....		
All causes.....	2	1.69

TABLE V.—CAUSES OF DEATHS OF EMPLOYEES OF THE PANAMA CANAL AND PANAMA RAILROAD.

Causes of death.	White.	Colored.	Total.
<b>Disease:</b>			
Calculi of the urinary passages.....		1	1
Endocarditis, acute.....		1	1
Pneumonia, lobar.....		1	1
Septicaemia.....		1	1
Tuberculosis, disseminated.....		1	1
Tuberculosis of bones and joints.....		1	1
Tuberculous meningitis.....		1	1
<b>External causes:</b>			
Drowning, accidental.....		4	4
Suicide by firearms.....	1		1
Traumatism by fall.....	1		1
<b>Total.....</b>	<b>2</b>	<b>11</b>	<b>13</b>

TABLE VI.—CAUSES OF DEATHS OF EMPLOYEES AND CIVIL POPULATION AND PLACES WHERE CHARGEABLE.

Disease.	Pan-ama.	Colon.	Canal Zone.	Total.
<i>General diseases.</i>				
Malarial fever, estivoautumnal.....	1		2	3
Septicemia.....	2			2
Tetanus.....	1	1		2
Pellagra.....		2		2
Tuberculosis of the lungs.....	15	2	1	18
Acute miliary tuberculosis.....	1	1		2
Tuberculous meningitis.....	1	1		2
Tuberculosis of bones and joints.....			1	1
Disseminated tuberculosis.....			1	1
Syphilis, primary.....	1			1
Gonococcus infection.....		1		1
Cancer and other malignant tumors of the stomach and liver.....			1	1
Cancer and other malignant tumors of the female genital organs.....	3		1	4
Acute articular rheumatism.....	1			1
Diabetes.....			1	1
<i>Diseases of the nervous system and of the organs of special sense.</i>				
Encephalitis.....	1		1	2
Simple meningitis.....	2			2
Cerebral hemorrhage, apoplexy.....	4	1	1	6
Convulsions of infants (under 5 years).....	2			2
Other diseases of the nervous system.....	1			1
<i>Diseases of the circulatory system.</i>				
Pericarditis.....		1		1
Acute endocarditis.....	1			1
Organic diseases of the heart.....	9	3	1	13

TABLE VI.—CAUSES OF DEATHS OF EMPLOYEES AND CIVIL POPULATION AND PLACES WHERE CHARGEABLE—Continued.

Disease.	Pan-ama.	Colon.	Canal Zone.	Total.
<i>Diseases of the respiratory system.</i>				
Acute bronchitis.....	7	2	.....	9
Chronic bronchitis.....	.....	1	.....	1
Broncho-pneumonia.....	15	1	1	17
Pneumonia (unqualified).....	5	.....	.....	5
Lobar pneumonia.....	2	1	.....	3
<i>Diseases of the digestive system.</i>				
Chronic gastritis.....	.....	1	.....	1
Acute indigestion.....	1	.....	.....	1
Diarrhea and enteritis (under 2 years).....	32	3	1	36
Colitis.....	1	.....	1	2
Diarrhea and enteritis (2 years and over).....	.....	1	.....	1
Colitis.....	1	.....	.....	1
Acute appendicitis.....	.....	1	1	2
Intestinal obstruction.....	.....	.....	1	1
Abscess of liver (unqualified).....	1	1	.....	2
<i>Nonvenereal diseases of the genito-urinary system and annexa.</i>				
Acute nephritis.....	3	.....	1	4
Bright's disease (chronic nephritis).....	2	6	1	9
Calculi of the urinary passages.....	.....	1	.....	1
Cystitis.....	.....	1	.....	1
Other diseases of the uterus.....	.....	.....	1	1
Salpingitis and other diseases of the female genital organs.....	1	1	.....	2
<i>The puerperal state.</i>				
Puerperal septicaemia.....	2	1	.....	3
Eclamsia.....	.....	1	.....	1
<i>Diseases of the skin and of the cellular tissue.</i>				
Furuncle.....	1	.....	.....	1
<i>Diseases of the bones and of the organs of locomotion.</i>				
Mastoid abscess.....	1	.....	.....	1
Osteomyelitis.....	.....	.....	1	1
<i>Malformations.</i>				
Congenital malformations (stillbirth not included).....	.....	.....	1	1
<i>Diseases of early infancy.</i>				
Premature birth.....	.....	2	2	4
Congenital debility.....	4	4	3	11
Malnutrition.....	1	1	2	4

TABLE VI.—CAUSES OF DEATHS OF EMPLOYEES AND CIVIL POPULATION AND PLACES WHERE CHARGEABLE—Continued.

Disease.	Pan-ama.	Colon.	Canal Zone.	Total.
<i>Affections produced by external causes.</i>				
Suicide by firearms.....	1	1		2
Conflagration.....		1		1
Burns (conflagration excepted).....			2	2
Accidental drowning.....		1	3	4
Traumatism by fall.....	3			3
Traumatism by other crushings (vehicles, rail-roads, landslides, etc.).....			1	1
Other external violence.....	1			1
<i>Ill-defined diseases.</i>				
Ill-defined organic disease.....			1	1
Cause of death not specified or ill defined.....	1	1		2
Infections of undetermined origin.....			1	1
Total.....	132	47	36	215
Stillbirths.....	21	4	5	30
Grand total.....	153	51	41	245



TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS IN THE MAY,

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>General diseases.</i>												
Typhoid fever.....									1			
Malaria.....												
Malarial fever:												
Estivoautumnal.....	8	9	19				10	4	10			
Tertian.....	1	3	2				6		5			
Quartan.....			1									
Clinical.....	1	7	17				4	1	4			
Cachexia.....			1									
Measles.....			6				1		10			
Whooping cough.....								1	1			
Influenza.....	3		5				2	1				
Dysentery.....									1			
Dysentery, entamoebic.....			1					1	1			
Mumps.....	1		6				2		1			
Tetanus.....												1
Tuberculosis of the lungs.....	1		4				1	2	2		1	2
Acute military tuberculosis.....									2			2
Tuberculous meningitis.....						1						
Tuberculosis of bones and joints.....			1			1						
Tuberculosis of the lymph glands.....							1					
Disseminated tuberculosis.....			1			1						
Syphilis, primary.....		1	2				1					
Syphilis, secondary.....	1						6	1	1			
Syphilis, tertiary.....	1		23				2	3	2			
Syphilis, period not stated.....			1				1	2	1			
Gonococcus infection.....									1			1
Gonorrhea.....	2	1	9				17	1				
Gonorrheal arthritis.....			1				1					
Gonorrheal bubo.....							3					
Gonorrheal orchitis and epididymitis.....												
Gonorrheal ophthalmia.....			2				1	1				
Soft chancre.....	2		4				6					
Adenitis chancroidal.....			3				13					
Cancer and other malignant tumors of the female genital organs.....												1
Cancer and other malignant tumors of the skin.....							1					



## HOSPITALS OF THE PANAMA CANAL FOR THE MONTH OF 1915.

Colon Hospital.												Total.											
Employees.						Nonemployees.						Employees.						Nonemployees.					
Admis- sions.			Deaths.			Admis- sions.			Deaths.			Admis- sions.			Deaths.			Admis- sions.			Deaths.		
W.			W.			W.			W.			W.			W.			W.			W.		
Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
		1												1									
2	1	8				1	1	3				10	10	27				11	5	13			
	3											1	3	5				6		5			
3	2	2						3				4	9	19				4	4	4			
										1				1									
														6				1		11			
1		2				3	1					4		7				5	2	1			
														1					1	1			
		3				1						1		9				3		1			
		2										1		6				1	2	2		1	1
																		2		2			2
														1									
														1				1					
														1				1					
													1	2				6	1	1			
												1		23				2	3	2			
														1				1	2	1			
		1												1						1			1
	1											2	1	10				17	1				
														1				1					
														3				3					
														2				1	1				
														1					1				
												2		4				6					
														3				13					
																							1
																		1					

<sup>1</sup> Transferred to Ancon Hospital.

TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS IN THE MAY,

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>General diseases—Contd.</i>												
Cancer and other malignant tumors of other organs and of organs not specified.												
Other tumors (tumors of the female genital organs excepted).			1									
Acute articular rheumatism	1		1				1		1			
Chronic rheumatism and gout.			1				1					
Diabetes.			1									
Hodgkin's disease.								1				
Anemia, secondary, cause not determined.									1			
Other general diseases.												
Alcoholism, acute.	1						2					
Alcoholic psychosis.							1					
<i>Diseases of the nervous system and of the organs of special sense.</i>												
Encephalitis.									1			1
Simple meningitis.								1			1	
Cerebral hemorrhage, apoplexy.									1			
Softening of the brain.			2									
Paralysis without specified cause.							1					
General paralysis of the insane.												
Other forms of mental alienation.		1	1						3			
Dementia precoc.												
Epilepsy.			1				1					
Hysteria.							1					
Neuralgia.								1	1			
Neuritis.								2				
Tumor of the brain.								1				
Neurasthenia.	2							1				
Diseases of the eyes and their annexa.	2	2	9				3	5	3			
Diseases of the ears.	3		2				6	4	2			



TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS IN THE MAY,

Diseases.	Ancon Hospital.										
	Employees.						Nonemployees.				
	Admissions.			Deaths.			Admissions.			Deaths.	
	White.			White.			White.			White.	
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.
<i>Diseases of the circulatory system.</i>											
Acute endocarditis.....			1			1					
Organic diseases of the heart.....			1					2	1		
Aneurysm.....											
Diseases of the veins (varices, hemorrhoids, phlebitis, etc.).....		1							1		
Hemorrhoids.....			4				4	2			
Varices.....							1				
Varicocele.....			1				2				
Disease of the lymphatic system (lymphangitis, etc.).....											
Lymphadenitis (nonvenereal).....	1	2	2				7	2			
<i>Diseases of the respiratory system.</i>											
Diseases of the nasal fossæ.....	3						2				
Adenoid vegetations.....								3	1		
Diseases of the larynx.....								1			
Diseases of the thyroid body.....							1	1			
Acute bronchitis.....	1	1	1				4	7	8		
Chronic bronchitis.....		1	1				1		1		
Broncho-pneumonia.....								1	1		1
Pneumonia (unqualified).....			3								
Lobar pneumonia.....			1			1			2		
Pleurisy.....	1	1	6				1		1		
Pulmonary congestion, pulmonary apoplexy.....								3			
Asthma.....	1		2					3			
Other diseases of the respiratory system (tuberculosis excepted).....	2						1				
Abscess of lungs.....			1								



TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS IN THE MAY

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>Diseases of the digestive system.</i>												
Diseases of the mouth and annexa.							1		1			
Diseases of the teeth and gums.		1	1									
Diseases of the pharynx.	1		1				2		3			
Pharyngitis.												
Follicular tonsillitis.	2		4				9	1	4			
Diseases of the esophagus.	1											
Other diseases of the stomach (cancer excepted).								2				
Acute gastritis.									1			
Diarrhea and enteritis (under 2 years).									1			
Diarrhea and enteritis (2 years and over).			2					3	1			
Colitis.								1				
Ankylostomiasis.			2									
Intestinal parasites.			3									
Acute appendicitis.							6			1		
Chronic appendicitis.	1						3		1			
Inguinal hernia.	2	1	5				2	4	5			
Intestinal obstruction.									1			1
Other diseases of the intestines.	8	3	2				3	2				
Constipation.	1						1	1				
Other diseases of the liver.	3		1				1	2				
Cholecystitis.	1											
<i>Nonvenereal diseases of the genito-urinary system and annexa.</i>												
Acute nephritis.								1	2	1		
Bright's disease (chronic nephritis).			4					4	3			
Other diseases of the kidney and annexa.								1				
Calculi of the urinary passages.	1		2		1			3				
Diseases of the bladder.			2				1					
Cystitis.		1					1	1				





TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS IN THE MAY.

[illegible]





TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS IN THE MAY,

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>Diseases of the skin and of the cellular tissue—Con.</i>												
Dhobie itch.....							1					
Ulcer of the skin.....									2			
Tropical ulcer.....			1									
Impetigo contagiosa.....							1	1				
Ingrowing nail.....							5					
Other diseases of the skin and annæxa.....			1				4	1				
<i>Diseases of the bones and of the organs of locomotion.</i>												
Diseases of the bones (tuberculosis excepted).....									1			
Mastoid abscess.....								1			1	
Osteomyelitis.....									1			1
Periostitis.....		1	1									
Arthritis.....	1	1	3				1	1	1			
Synovitis.....	1		1				2	1				
Amputations.....			1									
Other diseases of the organs of locomotion.....	2		3				1	1	2			
<i>Malformations.</i>												
Congenital malformations (stillbirth not included).....							5					
<i>Diseases of early infancy.</i>												
Newborn child.....								11				
Premature birth.....								1				
Congenital debility.....									1			1
<i>Affections produced by external causes.</i>												
Suicide by firearms.....												
Poisoning by food.....	3		2				2					
Other acute poisonings.....								1				
Conflagration.....												
Burns (conflagration excepted).....			2					2				

## HOSPITALS OF THE PANAMA CANAL FOR THE MONTH OF 1915—Continued.

Colon Hospital.															Total.									
Employees.						Nonemployees.						Employees.						Nonemployees.						
Admis- sions.			Deaths.			Admis- sions.			Deaths.			Admis- sions.			Deaths.			Admis- sions.			Deaths.			
W.			W.			W.			W.			W.			W.			W.						
Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.	
						1												2						
													1					1						
																		5	1					
		1						2					2					4	1	2				
																				1				
													1						1			1		
												1	1					1	1	1				
												1						2	1					
												2		3				1	1	2				
																		5						
						3		2											14	2				
							1			1									1	1			1	
																			1					

TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS IN THE MAY,

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>Affections produced by external causes—Continued.</i>												
Absorption of deleterious gases (conflagration excepted).....	1		1					1				
Traumatism by cutting or piercing instruments.....		1	4				1		1			
Traumatism by fall.....	1		4			1	2					
Traumatism by machines.....												
Traumatism by other crushings (vehicles, railroads, landslides, etc.).....	1											
Railroad traumatism.....			3									
Traumatism by landslides.....			1									
Fractures (cause not specified).....	4	1	6				2	3	1			
Sprains.....	1											
Other external violence.....	10	7	44					1	3			
<i>Ill-defined diseases.</i>												
Infections of undetermined origin.....		1						1	1			1
No disease.....			1				2	7	6			
Feigned disease.....							1					
Total.....	93	50	281	0	0	7	191	149	132	2	4	15

## HOSPITALS OF THE PANAMA CANAL FOR THE MONTH OF 1915—Continued.

Colon hospital.												Total.											
Employees.						Nonemployees.						Employees.						Nonemployees.					
Admis- sions.			Deaths.			Admis- sions.			Deaths.			Admis- sions.			Deaths.			Admis- sions.			Deaths.		
W.			W.			W.			W.			W.			W.			W.			W.		
Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
												1		1				1					
1		3					1	3				2	1	7			1	1	4				
		2											6			1	2						
		1											1										
1	1	11				1	1					2	1	11			1	1					
													3										
													1										
1		5					1	1				5	1	11			2	4	2				
		5										1		5									
		1				2		3				10	7	45			2	1	6				
1												1	1					1	1				1
														2									
		1															2	7	6				
																	1						
12	7	69	0	1	0	16	23	33	0	1	3	105	57	350	0	1	7	207	172	165	2	5	18

TABLE VIII.—CONSOLIDATED HOSPITAL REPORT.

[A.=American. F.=foreign. B.=black.]

Hospitals.	Remaining May 1.			Admitted.			Died.		
	A.	F.	B.	A.	F.	B.	A.	F.	B.
<b>ANCON HOSPITAL.</b>									
Panama Canal employees.....	27	13	173	81	45	203	.....	.....	7
Panama Railroad employees.....	3	1	60	12	5	77	.....	.....	.....
Panama pay patients.....	.....	.....	1	.....	.....	.....	.....	.....	.....
Other pay patients.....	65	28	25	261	64	86	2	4	11
Charity patients.....	6	2	24	9	3	43	.....	.....	3
Total.....	101	44	283	363	117	409	2	4	21
<i>Insane department.</i>									
Panama Canal employees.....	.....	6	10	.....	.....	1	.....	.....	.....
Panama Railroad employees.....	.....	.....	2	.....	.....	.....	.....	.....	.....
Panama pay patients.....	.....	13	162	.....	.....	2	.....	.....	1
Other pay patients.....	2	1	2	3	.....	.....	.....	.....	.....
Charity patients.....	4	3	50	.....	.....	1	.....	.....	.....
Total.....	6	23	226	3	.....	4	.....	.....	1
Grand total.....	107	67	509	366	117	413	2	4	22
<i>Corozal Farm.</i>									
Panama Canal employees.....	.....	9	41	.....	.....	2	.....	.....	.....
<i>Chronic ward.</i>									
Charity patients.....	.....	.....	28	.....	.....	2	.....	.....	.....
<b>COLON HOSPITAL.</b>									
Panama Canal employees.....	4	3	11	9	4	33	.....	.....	.....
Panama Railroad employees.....	1	1	4	3	3	36	.....	1	.....
Panama pay patients.....	.....	3	8	2	3	13	.....	1	1
Other pay patients.....	6	4	3	18	12	12	.....	.....	1
Charity patients.....	1	.....	3	3	1	8	.....	.....	1
Total.....	12	11	29	35	23	102	.....	2	3
<b>PALO SECO LEPER ASYLUM.</b>									
Panama pay patients.....	.....	3	30	.....	.....	.....	.....	.....	.....
Charity patients.....	.....	2	16	.....	.....	.....	.....	.....	.....
Total.....	.....	5	46	.....	.....	.....	.....	.....	.....
<b>GRAND TOTALS.</b>									
Panama Canal employees.....	31	31	235	90	49	239	.....	.....	7
Panama Railroad employees.....	4	2	66	15	8	113	.....	1	.....
Panama pay patients.....	.....	19	201	2	3	15	.....	1	2
Other pay patients.....	73	33	30	282	76	98	2	4	12
Charity patients.....	11	7	121	12	4	54	.....	.....	4
Total.....	119	92	653	401	140	519	2	6	25

TABLE VIII.—CONSOLIDATED HOSPITAL REPORT—Continued.

Hospitals.	Discharged.			Transferred.			Remain- ing May 31.			Average number con- stantly sick.				
	A.	F.	B.	A.	F.	B.	A.	F.	B.	White.		B.	Total.	
										A.	F.			
ANCON HOSPITAL.														
Panama Canal employ- ees.....	81	40	220	.....	.....	2	27	18	147	27.26	19.68	155.23	202.17	
Panama Railroad em- ployees.....	12	4	81	.....	.....	.....	3	2	56	3.19	1.45	59.42	64.06	
Panama pay patients.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1.00	1.00	
Other pay patients.....	219	60	67	3	1	.....	102	27	33	96.32	32.35	26.64	155.31	
Charity patients.....	12	5	25	.....	.....	.....	3	.....	39	5.42	.97	31.32	37.71	
Total.....	324	109	393	3	1	2	135	47	276	132.19	54.45	273.61	460.25	
Insane department.														
Panama Canal employ- ees.....	.....	.....	.....	.....	1	.....	.....	5	11	.....	5.35	10.74	16.09	
Panama Railroad em- ployees.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	2.00	2.00	
Panama pay patients.....	.....	.....	2	.....	.....	1	.....	13	160	.....	13.00	160.61	173.61	
Other pay patients.....	.....	.....	.....	.....	.....	.....	5	1	2	3.35	1.00	2.00	6.35	
Charity patients.....	.....	.....	1	.....	.....	1	4	3	49	4.00	3.00	49.74	56.74	
Total.....	.....	.....	3	.....	1	2	9	22	224	7.35	22.35	225.09	254.79	
Grand total.....	324	109	396	3	2	4	144	69	500	139.54	76.80	498.70	715.04	
Corozal Farm.														
Panama Canal employ- ees.....	.....	.....	.....	.....	.....	.....	.....	9	43	.....	9.00	42.74	51.74	
Chronic ward.														
Charity patients.....	.....	.....	3	.....	.....	.....	.....	.....	27	.....	.....	27.13	27.13	
COLON HOSPITAL.														
Panama Canal employ- ees.....	10	5	29	2	2	4	1	.....	11	2.03	1.32	11.03	14.38	
Panama Railroad em- ployees.....	2	1	17	1	1	16	1	1	7	.32	.45	6.51	7.28	
Panama pay patients.....	.....	1	4	2	4	15	.....	.....	1	.09	.54	.80	1.43	
Other pay patients.....	14	12	6	1	2	7	9	2	1	4.83	3.70	2.32	10.85	
Charity patients.....	2	1	5	1	.....	4	1	.....	1	.61	.22	.80	1.63	
Total.....	28	20	61	7	9	46	12	3	21	7.88	6.23	21.46	35.57	
PALO SECO LEPER ASYLUM.														
Panama pay patients...	.....	.....	.....	.....	.....	.....	.....	3	30	.....	3.00	30.00	33.00	
Charity patients.....	.....	.....	.....	.....	.....	.....	.....	2	16	.....	2.00	16.00	18.00	
Total.....	.....	.....	.....	.....	.....	.....	.....	5	46	.....	5.00	46.00	51.00	

TABLE VIII.—CONSOLIDATED HOSPITAL REPORT—Continued.

Hospitals.	Dis- charged.			Trans- ferred.			Remain- ing May 31.			Average number con- stantly sick.			
										White.		B.	Total.
	A.	F.	B.	A.	F.	B.	A.	F.	B.	A.	F.		
GRAND TOTALS.													
Panama Canal employ- ees.....	91	45	249	2	3	6	28	32	212	29.29	35.35	219.74	234.38
Panama Railroad em- ployees.....	14	5	98	1	1	16	4	3	65	3.51	1.90	67.93	73.34
Panama pay patients.....		1	6	2	4	16		16	192	.09	16.54	192.41	209.04
Other pay patients.....	233	72	73	4	3	7	116	30	36	104.50	37.05	30.96	172.51
Charity patients.....	14	6	34	1		5	8	5	132	10.03	6.19	124.99	141.21
Total.....	352	129	460	10	11	50	156	86	637	147.42	97.03	636.03	880.48

Number of employees remaining in hospitals:

White.....	67
Colored.....	277
Total.....	344

TABLE IX.—CONSOLIDATED DISPENSARY REPORT.

EMPLOYEES TREATED IN QUARTERS, AND ALL CASES TREATED BUT NOT EXCUSED.

	Employees treated in quarters.														
	Remain- ing May 1.		Ad- mitted.		Died.		Dis- charged.		Trans- ferred.		Remain- ing May 31.		Days lost.		
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	Total.
Naos Island	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ancon.....	8	.....	111	.....	.....	.....	111	.....	2	.....	6	.....	384	.....	384
Balboa.....	6	1	61	42	.....	.....	64	28	3	15	.....	.....	151	63	214
Corozal.....	4	.....	46	4	.....	.....	47	3	1	1	2	.....	150	15	165
Pedro Mig- uel.....	1	.....	16	.....	.....	.....	14	.....	1	.....	2	.....	68	.....	68
Paraiso.....	1	.....	15	.....	.....	.....	11	.....	4	.....	1	.....	21	.....	21
Gamboia.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gatun.....	2	1	11	5	.....	.....	9	4	.....	2	4	.....	16	25	41
Colon.....	4	13	69	52	.....	.....	70	54	.....	.....	3	11	148	322	470
Total.	26	15	329	103	.....	.....	326	89	11	18	18	11	938	425	1,363



TABLE IX.—CONSOLIDATED DISPENSARY REPORT—Continued.

EMPLOYEES TREATED IN QUARTERS, AND ALL CASES TREATED BUT NOT EXCUSED—Continued.

	All cases treated but not excused.								
	Employees.			Nonemployees.			Total.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
Naos Island...	158	1,195	1,353	.....	.....	.....	158	1,195	1,353
Ancon.....	1,940	3,660	5,600	1,383	1,944	3,327	3,323	5,604	8,927
Balboa.....	3,210	3,645	6,855	499	319	818	3,709	3,964	7,673
Corozal.....	1,408	1,611	3,019	1,189	224	1,413	2,597	1,835	4,432
Pedro Miguel..	584	995	1,579	621	222	843	1,205	1,217	2,422
Paraiso.....	625	1,810	2,435	449	546	995	1,074	2,356	3,430
Gamboa.....	63	145	208	31	377	408	94	522	616
Gatun.....	755	946	1,701	935	495	1,430	1,690	1,441	3,131
Colon.....	650	1,656	2,306	634	763	1,397	1,284	2,419	3,703
Total....	9,393	15,663	25,056	5,741	4,890	10,631	15,134	20,553	35,687

## CONSOLIDATED ADMISSION REPORT.

	White.	Colored..	Total.
Total admissions to hospitals, excluding Corozal Farm and chronic ward .....	541	515	1,056
Total admissions of employees to quarters.....	329	103	432
Total.....	870	618	1,488
Less number of patients transferred between hospitals and from quarters to hospitals whose admissions are duplicated in above figures.....	32	68	100.
Net admissions to hospitals and quarters....	838	550	1,388
Net admissions of employees to hospitals and quarters.....	473	413	886
Annual average per thousand of admissions of employees to hospitals and quarters.....	1,153.19	166.99	307.28

## CONTAGIOUS AND INFECTIOUS DISEASES REPORTED.

Diseases.	Panama.	Colon.	Canal Zone.	Total.
Measles.....	29	2	13	44
Typhoid fever.....	.....	1	.....	1
Annual average per 1,000.....	.....	0.41	.....	.....
Mumps.....	.....	13	7	20
Chickenpox.....	2	.....	.....	2
Diphtheria.....	.....	5	1	6
Malarial fever.....	.....	24	75	103
Tuberculosis (any organ).....	3	4	15	22
Whooping cough.....	2	1	3	6
Trachoma.....	.....	1	.....	1
Leprosy.....	1	.....	.....	1

TABLE X.—NUMBER OF EMPLOYEES CONSTANTLY SICK IN HOSPITALS AND QUARTERS.

	White.	Colored.	Total.
Hospitals:			
Ancon Hospital .....	56.93	227.39	284.32
Colon Hospital.....	4.12	17.54	21.66
Total.....	61.05	244.93	305.98
Quarters:			
Ancon .....	12.39	.....	12.39
Balboa .....	4.87	2.03	6.90
Corozal .....	4.84	.48	5.32
Pedro Miguel.....	5.87	.....	5.87
Paraiso .....	.68	.....	.68
Gatun .....	.52	.81	1.32
Colon .....	4.77	1.03	5.80
Total.....	33.94	4.35	38.29

	Hospitals.	Quarters.	Total.
Average number of employees constantly sick:			
White.....	61.05	33.94	94.99
Colored.....	244.93	4.35	249.28
Total.....	305.98	38.29	344.27
Average number of employees constantly sick per 1,000:			
White.....	12.39	6.90	19.29
Colored.....	8.25	.14	8.39
Total.....	8.84	1.11	9.95

TABLE XI.—AVERAGE LENGTH OF STAY IN HOSPITALS OR QUARTERS FOR EACH ADMISSION OF SICK EMPLOYEES.

	White.	Colored.	Total.
Hospitals:			
Ancon Hospital .....	13.09	23.16	20.02
Colon Hospital.....	9.04	9.95	9.70
Quarters:			
Ancon .....	3.73	.....	3.73
Balboa .....	2.57	1.47	2.14
Corozal .....	3.21	3.75	3.25
Pedro Miguel.....	2.19	.....	2.19
Paraiso .....	1.47	.....	1.47
Gatun .....	2.29	5.00	3.42
Colon .....	2.37	7.51	4.59

TABLE XII.—DEPARTMENT OF HEALTH—FINANCIAL STATEMENT.

	April, 1915.	March, 1915.	April, 1914.
Administration:			
Chief health office.....	\$570.88	\$484.01	\$2,272.67
Hospital division:			
Ancon Hospital.....	26,514.68	29,055.31	39,343.18
Board of Health Laboratory <sup>1</sup> .....	1,412.42		
Corozal Farm <sup>2</sup> .....	3,494.14	3,022.10	2,050.32
Chronic ward.....	219.71	237.57	232.00
Colon Hospital.....	3,551.01	3,539.03	2,124.00
Palo Seco Leper Asylum.....	1,828.97	2,044.54	1,182.40
Santo Tomas Hospital.....	909.18	629.49	924.00
Medical storehouse.....	863.92	795.22	610.98
Total.....	38,794.03	39,323.26	46,466.88
District dentists.....	5.88	15.88	
Dispensaries:			
Naos Island.....	124.43	94.39	247.80
Balboa.....	933.23	1,076.85	954.48
Tivoli.....			742.79
Corozal.....	648.96	825.14	727.76
Pedro Miguel.....	476.86	496.78	407.79
Paraíso.....	535.88	596.18	595.45
Culebra.....	134.51		745.41
Empire.....			902.87
Gamboá.....	142.77	138.78	121.45
Gatun.....	596.43	551.98	922.16
Cristobal.....			987.20
Porto Bello.....			288.59
Margarita Point.....			109.11
Toro Point.....	18.20		242.42
Total.....	3,617.15	3,795.98	7,995.28
Sanitary division:			
General inspector.....	50.00		314.92
Health office, Panama.....	2,959.66	2,908.43	3,275.28
Street cleaning.....	4,273.73	4,301.94	4,132.73
Health office, Colon.....	1,439.21	1,717.07	1,513.69
Street cleaning.....	1,903.55	2,020.39	2,014.65
Zone sanitation—			
Ancon.....	757.84	849.36	1,195.98
Balboa.....	617.47	643.81	1,128.53
Corozal.....	1,315.70	900.66	1,320.11
Pedro Miguel.....	1,989.80	696.32	2,752.30
Paraíso.....		756.18	1,446.92
Culebra.....	357.70	315.45	955.24
Empire.....			2,019.47
Frijoles.....	99.77	111.50	119.30
Gatun.....	1,165.01	899.31	2,233.23
Cristobal and Mount Hope.....	1,522.40	1,036.25	2,732.87
Toro Point.....			62.50
Porto Bello.....			236.33
Total.....	18,451.84	17,156.67	27,454.05

<sup>1</sup> The cost of the insane asylum formerly charged to Ancon Hospital is now included in figures for Corozal Farm.

<sup>2</sup> Board of Health Laboratory now shown as separate item formerly included with Ancon Hospital figures.

NOTE.—April, 1915, last available figures.

TABLE XII.—DEPARTMENT OF HEALTH—FINANCIAL STATEMENT—Continued.

	April, 1915.	March, 1915.	April, 1914.
Quarantine division:			
Chief quarantine officer.....	\$439.73		
Balboa, Panama.....	1,647.96	\$1,729.00	
Colon, Cristobal.....	2,659.55	2,667.68	
Total.....	4,747.24	4,396.68	\$4,031.95
<i>Recapitulation.</i>			
Chief health office.....	570.88	484.01	2,272.67
Hospital division.....	38,794.03	39,323.26	46,466.88
Dispensaries.....	3,617.15	3,795.98	7,995.28
Sanitary division.....	18,451.84	17,156.67	27,454.05
Quarantine division.....	4,747.24	4,396.68	4,031.95
Grand total.....	66,181.14	65,156.60	88,220.83
Construction and repair to buildings.....		569.69	587.85

TABLE XIII.—ANCON HOSPITAL.

## REPORT OF NATIONALITY OF PATIENTS TREATED.

	Total number treated.	American.		Other nations.	
		White.	Black.	White.	Black.
The hospital:					
Class—					
Panama Canal employees....	542	107	1	58	376
Panama Railroad employees....	158	15		6	137
Panama Government pay cases.....	1				1
Other pay cases.....	529	325	1	92	111
Charity cases.....	87	15		5	67
Total.....	1,317	462	2	161	692
The asylum:					
Panama Canal employees.....	17			6	11
Panama Railroad employees.....	2				2
Panama Government pay cases....	177			13	164
Other pay cases.....	8	5		1	2
Charity cases.....	58	4		3	51
Total.....	262	9		23	230
Grand total.....	1,579	471	2	184	922
Soldiers.....	238	238			
Chronics.....	30				30
Corozal Farm.....	52			9	43

TABLE XIII.—ANCON HOSPITAL—Continued.

## REPORT OF DAYS LOST IN HOSPITAL.

	Total.	Ameri- can.	Other white.	Black.
The hospital:				
Class—				
Panama Canal employees.....	6,267	845	610	4,812
Panama Railroad employees....	1,986	99	45	1,842
Panama Government pay cases..	31			31
Other pay cases.....	4,815	2,986	1,003	826
Charity cases.....	1,169	168	30	971
Total.....	14,268	4,098	1,688	8,482
The asylum:				
Panama Canal employees.....	499		166	333
Panama Railroad employees....	62			62
Panama Government pay cases....	5,382		403	4,979
Other pay cases.....	197	104	31	62
Charity cases.....	1,759	124	93	1,542
Total.....	7,899	228	693	6,978
Grand total.....	22,167	4,326	2,381	15,460
Soldiers.....	2,292	2,292		
Chronics.....	841			841
Corozal Farm.....	1,604		279	1,325

Average cost of subsistence per patient per day, \$0.24714.

## WARD LABORATORY REPORT.

Blood examinations (total number).....	792
Estivoautumnal.....	77
Mixed.....	1
Quartan.....	3
Tertian.....	23
Differential counts.....	61
Memoglobulin estimations.....	70
Leucocyte counts.....	95
Red blood counts.....	2
Stool examinations (total number).....	391
Ameba.....	4
Ascaris lumbricoides.....	6
Balantidium coli.....	3
Cercomonas intestinalis.....	1
Ciliated monads.....	19
Entameba (hystolytica and tetragena).....	3
Guaiac tests.....	15
Pus and blood.....	93
Strongiloides.....	21
Tricocephalus dispar.....	36
Uncinaria (ova).....	44
Urine examinations (total number).....	1,780
Albumen.....	384
Bile.....	29
Casts.....	364
Epithelia.....	130
Guaiac tests.....	5
Hemin crystals.....	1
Indicon.....	47
Pus and blood.....	470
Sugar (positive, 4; negative, 24).....	28

TABLE XIII.—ANCON HOSPITAL—Continued.

Sputum examinations (total number).....	264
Positive for tubercle bacilli.....	26
Smear examinations (total number).....	29
Urethral.....	13
Eye (2 positive).....	5
Spinal fluid.....	11

## REPORT OF SURGICAL OPERATIONS.

	Number.	Died.
Amputations:		
Leg.....	1	
Foot.....	1	
Digits, multiple.....	4	
Operations on bones:		
Cranioectomy, exploratory.....	1	
Ostectomy.....	1	1
Wiring of fractures, simple.....	3	
Wiring of fractures, compound.....	1	
Adenectomy:		
Inguinal, single.....	18	
Inguinal, double.....	10	
Femoral.....	2	
Herniotomy:		
Inguinal, single.....	9	
Inguinal, double.....	1	
Ventral.....	1	
Strangulated.....	2	
Genito-urinary tract:		
Cystotomy.....	1	
Urethrotomy, internal.....	3	
Urethrotomy, external.....	4	
Prostatectomy.....	1	
Varicocele, radical cure.....	1	
Hydrocele, single, radical cure.....	2	
Hydrocele, double, radical cure.....	1	
Epididymotomy..... radical cure.....	8	
Curetage uteri.....	4	
Vaginal punctures.....	1	
Obstetrical:		
Cæsarian section, vaginal.....	1	
Thorax:		
Thoracotomy.....	1	
Rectum:		
Hemorrhoids, radical cure.....	11	
General:		
Thyroidectomy.....	2	
Plastic operation for severe injuries.....	2	
Plastic operation for effects of disease.....	2	
Laparotomy:		
Enterectomy.....	1	
Appendectomy.....	11	
Appendectomy with local peritonitis.....	1	1
Cholecystectomy.....	1	
Abscess of liver, thoraco-hepatotomy for.....	1	
Supravaginal hysterectomy.....	5	
Hysteromyomectomy.....	1	
Ovarian cystectomy.....	1	
Prolapsus uteri.....	2	
For ectopic gestation.....	2	
Various other major operations.....	2	
Various minor operations.....	136	
Total.....	264	2

TABLE XIII.—ANCON HOSPITAL—Continued.  
REPORT OF OPERATIONS, EYE AND EAR DEPARTMENT.

	Number.	Died.
Adenoidectomy.....	8	.....
Submucous resection.....	1	.....
Tonsillectomy.....	8	.....
Mastoidectomy:		
Simple.....	1	.....
Radical.....	2	1
Evisceration, eye.....	1	.....
Pterygium transplanation:		
Single.....	1	.....
Double.....	1	.....
Minor operations:		
Eye.....	15	.....
Ear.....	6	.....
Throat.....	7	.....
Total.....	51	1
Refractions.....	111	.....

OUT-PATIENT DEPARTMENT.

Clinic.	Total visits.	New cases.	Pay cases.	Prescriptions.
Medical clinic.....	316	200	72	290
Surgical clinic.....	232	195	65	73
Eye and ear.....	610	216	28	244
Total.....	1,208	611	165	607

REPORT OF VACCINATIONS.

Adults vaccinated.....	110
"Takes".....	53

There were no school children vaccinated during the month.

REPORT OF BOARD OF HEALTH LABORATORY.

Bacteriological examinations of—	Chemical analysis of—Continued:	
Blood cultures..... 9	Bearing metal.....	1
Throat cultures..... 19	Beverage.....	1
Urines..... 33	Specimens for opium, cocaine,	
Stools..... 25	and their derivatives.....	4
Autopsies..... 6	Surgical tissues and neoplasms re-	
Pathological fluids, exudates..... 11	ported.....	22
Sputum..... 18	Autopsies performed <sup>1</sup> .....	16
Wassermann reactions..... 289	Animals examined and under obser-	
Preparation of salvarsanized serum	vation.....	4
for intraspinous treatment..... 2	Pathological tissues prepared, paraf-	
Autogenous vaccines prepared..... 3	fin.....	171
Antityphoid vaccination..... 1		
Vaccine points manufactured..... 2,836	Rats examined:	
Chemical analysis of—	Mus musculus.....	206
Hospital dairy milk..... 1	Mus norvegicus.....	286
Milk from private dairies sup-	Mus alexandrinus.....	11
plying cities of Panama and	Mus rattus.....	167
Colon..... 6		
Mother's milk..... 5		670
Stomach contents..... 1		
Urines..... 7	Bodies embalmed.....	3
Gasoline..... 2	Cremations.....	13
Kerosene..... 2	Interments.....	10

<sup>1</sup> Two autopsies have been held over pending result of Wassermann test in one case and chemical examination of stomach contents in the other.



## COROZAL HOSPITAL FOR THE INSANE.

## STATEMENT OF DEATHS, DISCHARGES, AND COMMITMENTS.

		Male.	Female.
Commitments:			
From Canal Zone on first commitment.....		5	
From Panama Government, first commitment.....			2
Total.....		5	2

	Well.		Improved.		Unimproved.	
	Male.	Female.	Male.	Female.	Male.	Female.
Discharges:						
British Guiana.....					1 D	
Trinidad.....					1 D	
Tobago.....					1 D	
St. Lucia.....						1
Panama.....	1				1	
Total.....	1				4	1

Key: D=Deported.

Death: 1 male.

Physical diagnosis: Tuberculosis of the lungs.

Mental diagnosis: Dementia precox.

TABLE XIV.—COLON HOSPITAL.

## NATIONALITY.

	American white.	Foreign white.	Black.	Total.
Panama Canal employees.....	13	7	44	64
Panama Railroad employees.....	4	4	40	48
Panama pay.....	2	6	21	29
Other pay.....	24	16	15	55
Charity cases.....	4	1	11	16
	47	34	131	212

Cost of subsistence per patient per day, 30 cents.

TABLE XIV.—COLON HOSPITAL—Continued.

## COLON HOSPITAL LABORATORY REPORT.

Blood examinations.....	102
Estivoautumnal.....	33
Tertian.....	4
Leucocyte counts.....	6
Stool examinations.....	2
Ameba.....	1
Negative for intestinal parasites.....	4
Urine examinations.....	137
Albumin.....	30
Casts.....	30
Sugar.....	2
Pus and blood.....	10
Sputum examinations.....	5
Negative for tubercle bacilli.....	5
Eye discharge.....	1
Negative for gonococci.....	1

## SURGICAL OPERATIONS.

Amputations:	
Digits, multiple.....	2
Leg.....	1
Adenectomy:	
Inguinal, single.....	1
Genito-urinary tract:	
Cystotomy.....	1
Urethrotomy, external.....	1
Curetage uteri.....	1
Obstetrical:	
High forceps.....	1
Low forceps.....	2
Perineorrhaphy.....	1
General:	
Excision of surface neoplasma.....	1
Plastic operation for severe injuries.....	5
Laparotomy:	
Apendectomy.....	2
Cholecystostomy.....	1
Supravaginal hysterectomy.....	1
Minor operations, various.....	21

TABLE XV.—PALO SECO LEPER ASYLUM.

## NATIONALITY OF PATIENTS.

Class.	Number treated.		Americans.		Others.	
	White.	Black.	White.	Black.	White.	Black.
Panama canal employees.....						
Panama Railroad employees.....						
Pay cases.....	3	30			3	30
Charity cases.....	2	16			2	16
Total.....	5	46			5	46

Cost of subsistence per patient per day, \$0.27.

TABLE XVI.—SANTO TOMAS HOSPITAL.

Class.	Remain- ing May 1.	Admit- ted.	Dis- charged.	Died.	Remain- ing May 31.
Pay cases.....	30	120	113	3	34
Charity cases.....	430	801	743	51	437
Total.....	460	921	856	54	471

Average number of patients constantly sick.....	456
Total number of days' treatment.....	14,147
Average number of days' treatment per patient.....	10
Cost of subsistence per patient per day.....	\$0.28

## NATIONALITY.

Class.	Number treated.	Americans.		Other nations.	
		White.	Colored.	White.	Colored.
Pay cases.....	150	4	.....	51	95
Charity cases.....	1,231	6	.....	26	1,199
Total.....	1,381	10	.....	77	1,294

## DISPENSARY REPORT.

Class.	White.	Colored.	Total.
Natives.....	73	587	660
Foreigners.....	45	560	605
Americans.....	10	.....	10
Total.....	128	1,147	1,275

## DISEASES TREATED.

Malaria.....	57
Measles.....	41
Whooping cough.....	1
Diphtheria and croup.....	1
Influenza.....	9
Dysentery.....	7
Erysipelas.....	1
Other epidemic diseases.....	3
Purulent infection and septicemia.....	16
Pellagra.....	1
Tuberculosis of the lungs.....	22
Syphilis.....	34
Gonococcus infection.....	35
Soft chancre.....	22
Cancer and other malignant tumors of the female genital organs.....	3

TABLE XVI.—SANTO TOMAS HOSPITAL—Continued.

Cancer and other malignant tumors of the breast.....	2
Cancer and other malignant tumors of other organs and of organs not specified..	2
Other tumors (tumors of the female genital organs excepted).....	2
Acute articular rheumatism.....	8
Diabetes.....	1
Alcoholism (acute or chronic).....	18
Encephalitis.....	1
Simple meningitis.....	2
Cerebral hemorrhage, apoplexy.....	1
Other forms of mental alienation.....	1
Other diseases of the nervous system.....	6
Diseases of the eyes and their annexa.....	3
Organic diseases of the heart.....	20
Diseases of the arteries, atheroma, aneurysm, etc.....	2
Diseases of the veins (varices, hemorrhoids, phlebitis, etc.).....	9
Diseases of the lymphatic system (lymphangitis, etc.).....	16
Hemorrhage; other diseases of the circulatory system.....	3
Diseases of the nasal fossæ.....	1
Diseases of the larynx.....	2
Chronic bronchitis.....	20
Broncho pneumonia.....	5
Pneumonia (unqualified).....	9
Pleurisy.....	9
Asthma.....	1
Diseases of the mouth and annexa.....	3
Diseases of the pharynx.....	8
Diseases of the stomach (cancer excepted).....	3
Diarrhea and enteritis (2 years and over).....	35
Ankylostomiasis.....	13
Intestinal parasites.....	2
Appendicitis and typhlitis.....	5
Hernia, intestinal obstructions.....	10
Diseases of the intestines.....	29
Cirrhosis of the liver.....	3
Other diseases of the liver.....	4
Simple peritonitis (nonpuerperal).....	1
Acute nephritis.....	11
Diseases of the bladder.....	5
Diseases of the urethra, urinary abscess, etc.....	15
Diseases of the prostate.....	2
Nonvenereal diseases of the male genital organs.....	13
Uterine hemorrhage (nonpuerperal).....	1
Uterine tumor (noncancerous).....	2
Other diseases of the uterus.....	14
Salpingitis and other diseases of the female genital organs.....	11
Normal labor.....	92
Accidents of pregnancy.....	21
Other accidents of labor.....	1
Puerperal septicemia.....	8
Furuncle.....	6
Acute abscess.....	18
Other diseases of the skin and annexa.....	24
Diseases of the joints (tuberculosis and rheumatism excepted).....	3
Other diseases of the organs of locomotion.....	3
Congenital malformations (stillbirth not included).....	1
New-born child.....	84
Congenital debility, icterus and sclerema.....	6
Other acute poisonings.....	3
Traumatism by firearms.....	14
Traumatism by cutting or piercing instruments.....	2
Fractures (cause not specified).....	15
No disease.....	22
Total.....	910

TABLE XVI.—SANTO TOMAS HOSPITAL—Continued.

## SURGICAL OPERATIONS.

	Number.	Died.
Amputations:		
Thigh.....	1	.....
Digits, multiple.....	2	.....
Resection of shoulder.....	1	.....
Adenectomy:		
Axillary.....	2	.....
Inguinal, single.....	1	.....
Inguinal, double.....	1	.....
Herniotomy, inguinal, single.....	9	.....
Femoral, herniotomy.....	1	.....
Urethrotomy, external.....	1	.....
Hydrocele, single, radical cure.....	3	.....
Curetage uteri.....	4	.....
Perineorrhaphy.....	1	.....
Hemorrhoids, radical cure.....	6	.....
Fistula in anus, excision of.....	1	.....
Varicose veins, excision of.....	1	.....
Excision of surface neoplasms.....	1	.....
Plastic operation for effects of disease.....	1	.....
Laparotomy, exploratory.....	2	.....
Appendectomy.....	8	.....
Pan-hysterectomy.....	7	.....
Abscess of liver, laparo hepatotomy for.....	1	.....
Abscess of liver, thoraco-hepatotomy for.....	1	1
Supravaginal hysterectomy.....	2	.....
Hysteromymectomy.....	1	.....
Salpingectomy, double.....	1	.....
Salpingo-oophorectomy.....	7	.....
Suspensio-uteri.....	4	.....
For ectopic gestation.....	2	.....
Major operations (various other).....	4	.....
Minor operations (various).....	37	.....
Total.....	114	1

TABLE XVII.—SANITATION.

The following is a summary of sanitary work performed and material expended during the month of May, 1915, in the Canal Zone:

Work requests on supply department:	
Grass cutting.....	9
Screening.....	5
Miscellaneous.....	10
Work requests on engineering department.....	4
Work requests on other departments.....	2
Notices served to abate nuisances.....	81
Arrests.....	3
Convictions.....	3
Inspection, of closets.....	1, 619
Inspections of stores.....	43
Inspections of shops.....	102
Inspections of restaurants.....	2
Building permits approved.....	1
Garbage cans emptied.....	75, 842
Closets disinfected.....	2, 222
Rat traps used daily.....	2, 590

Adult Anopheles destroyed in houses.....	14,684
Adult Culices destroyed in houses.....	6,456
Larvacide used.....gallons.....	427
Crude oil used.....do.....	10,533
Kerosene used.....do.....	210
Rats destroyed.....	414
Containers with Stegomyia larvæ found.....	20
Houses disinfected.....	1

## SUMMARY OF ROUTINE WORK DONE BY THE HEALTH OFFICE, PANAMA.

Mosquito, rat, and fly work:	
Lineal feet of ditches cleaned and maintained.....	28,103
Lineal feet of new ditches dug.....	2,937
Number of cubic yards earth used in filling.....	0
Gallons larvacide used.....	726
Gallons crude oil used.....	2,290
Square yards pools oiled.....	329,850
Water containers treated.....	35,027
Moquito breeding places found (33 Stegomyia).....	239
Fly breeding places found.....	277
Flies trapped (13,000 per quart).....quarts.....	25
Number rats caught.....	587
Number room disinfections.....	8
Garbage collections:	
Number loads garbage removed to dump.....	4,468
Number cubic yards garbage removed to dump.....	7,338
Total number of cans garbage emptied.....	108,008
Buildings:	
Number of buildings inspected.....	5,507
Number of plans for new buildings approved.....	11
Number of permits granted for repairs to old buildings.....	54
Total number of permits granted.....	65
Number of buildings condemned.....	17
Number of buildings demolished.....	3
Street cleaning:	
Average number of square yards cleaned daily.....	600,000
Average number of square yards street sprinkled daily.....	90,000
Number private properties cleaned during month.....	5
Number of notices served and nuisances abated.....	330
Vaccinations:	
Number of vaccinations during month.....	2,593
Total number of vaccinations since April 1, 1914.....	19,036

## WORK REPORT FOR COLON, CRISTOBAL, AND MOUNT HOPE.

[Health office, Cristobal, May 31, 1915.]

Sanitation, general, Colon:	
Square yards street cleaned.....	3,888,434
Cubic feet fumigated.....	2,688
Square yards alleys maintained.....	678,700
Number of private properties cleaned.....	65
Number of rats killed.....	284
Loads yard garbage handled.....	444
Number of cans, garbage (2,268 cubic yards).....	67,416
Colon dump maintained.....	
Linear yards ditches maintained.....	2,970
Parkway and E Street maintained.....	
Square yards oiled.....	32,370
Number of buildings inspected.....	2,850
Number of receptacles treated.....	23,700
Number mosquito-breeding places destroyed.....	66
Number of fly-breeding places destroyed.....	85
Number of nuisances abated.....	224
Gallons larvacide used.....	164
Gallons crude oil used.....	467



<b>Buildings, Colon:</b>	
Number of plans approved.....	7
Number of permits to occupy.....	1
Temporary permits to occupy issued.....	2
Number of permits to repair issued.....	60
Number of bills collected.....	40
<b>Sewers, Colon:</b>	
Number new connections made during the month.....	2
Total number connections made to date.....	1,177
Number of houses in which extensions were made.....	11
Outstanding permits.....	35
<b>Sanitation, Cristobal:</b>	
Number of cans, garbage (677 cubic yards).....	12,992
Loads of yard garbage handled.....	148
Square yards of vegetation removed.....	134,625
Square yards vegetation removed, Washington Hotel.....	2,125
Square yards oiled.....	5,000
Number of receptacles treated.....	3,050
Number of mosquito-breeding places destroyed.....	18
Number of fly-breeding places destroyed.....	6
Number of buildings inspected.....	350
Gallons larvacide used.....	34
Gallons crude oil used.....	64
<b>Sanitation, Mount Hope:</b>	
Number of cans garbage (188 cubic yards).....	1,880
Square yards oiled.....	103,800
Number receptacles treated.....	12,900
Number mosquito-breeding places destroyed.....	148
Number fly-breeding places destroyed.....	6
Number mosquitos caught in barracks—	
Anopheles.....	2,112
Culex.....	1,766
Gallons larvacide used.....	209
Gallons crude oil used.....	2,300
Mount Hope Cemetery maintained.....	
Linear yards ditches constructed (286 cubic yards).....	1,995
Linear yards ditching maintained.....	5,947
Square yards vegetation removed.....	60,709
Number of burials during the month.....	42

TABLE XVIII.—CONSOLIDATED REPORT OF QUARANTINE TRANSACTIONS AT THE PORTS OF BALBOA-PANAMA AND COLON-CRISTOBAL.

Number of vessels inspected and passed.....	190
Number of vessels held in quarantine.....	11
Total number of vessels entered.....	201
Number of vessels fumigated on arrival.....	9
Number of vessels fumigated on departure.....	0
Total number of vessels fumigated.....	9
Number of crew examined.....	11,772
Number of passengers examined (including 908 U. S. troops).....	5,391
Total number of persons examined.....	17,163
Number of persons vaccinated at ports of arrival because of compulsory vaccination law.....	582
Number of persons vaccinated at ports of departure or en route because of compulsory vaccination law.....	622
Total number of persons vaccinated.....	1,204
Number of persons held in quarantine at the detention houses to complete period of incubation of yellow fever and plague.....	386
Number of persons held in quarantine on board vessels to complete period of incubation of yellow fever and plague.....	1,232
Total number of persons held under observation.....	1,618



Total number of persons landed from foreign ports:		
Cabin.....	1,862	
Steerage.....	1,709	
		3,571
Total number of persons embarked for foreign ports:		
Cabin.....	2,811	
Steerage.....	1,170	
		3,981
Total number of persons arriving from coast towns on small launches and sailing craft.....	2,947	
Total number of persons sailing for coast towns on small launches and sailing craft.....	1,649	
Apparent increase for month from coast towns.....	1,298	
Apparent decrease for month from foreign ports:		
Cabin (decrease).....	949	
Steerage (increase).....	539	
		410
Number of immigrants recommended for deportation.....	46	
Number of bills of health issued or viséed.....	198	
Total number of persons landed.....	6,518	
Less number for Pacific ports.....	124	
	6,394	
Total number of persons sailing.....	5,630	
Total apparent increase for month.....		764

## IMMIGRATION REPORT FOR COLON.

From—	Cabin.	Steerage.
Europe.....	22	9
United States.....	1,002	492
Jamaica and West Indies.....	73	321
Venezuela.....	5	7
Colombia.....	93	113
Cuba.....	44	19
Guatemala.....	0	31
Costa Rica.....	131	89
Bocas del Toro.....	76	438
Coast towns.....	0	202
	1,446	1,721
		3,167
Men.....		2,260
Women.....		454
Children.....		251
Unclassified.....		202
Total.....		3,167

## QUARANTINE—BOCAS DEL TORO.

Number of vessels inspected and passed.....	14
Number of crew inspected and passed.....	1,139
Number of passengers inspected and passed.....	190
Number of passengers, in transit, inspected and passed.....	149
Number of persons held to complete period of incubation of plague.....	2

No quarantinable disease has appeared in this port, and the health conditions of the port and surrounding territory are good.

## TABLE XIX.—STATEMENT OF QUININE ISSUED.

	Kilos.
Quinine sulphate.....	30
Quinine sulphate tablets.....	5
Total.....	35

Pounds avoirdupois, 77.16.

TABLE XX.—PERSONNEL REPORT.

	May, 1915.		Total.	April, 1915, total.	May, 1914, total.
	Officers and em- ployees.	Skilled and unskilled labor.			
Chief health officer.....	3	-----	3	3	16
Medical storehouse.....	3	4	7	8	-----
Quarantine division.....	23	20	43	39	38
Health office:					
Panama.....	19	135	154	156	161
Colon.....	14	125	139	140	110
Ancon Hospital.....	227	100	327	315	513
Colon Hospital.....	25	11	36	35	32
Santo Tomas Hospital.....	5	-----	5	5	6
Palo Seco Leper Asylum.....	10	15	25	24	18
Zone sanitation.....	17	93	110	99	124
Hospital farm.....	3	50	53	49	49
Dispensaries:					
Balboa.....	6	-----	6	6	6
Corozal.....	4	-----	4	4	4
Cristobal.....	-----	-----	-----	-----	6
Culebra.....	-----	-----	-----	-----	5
Empire.....	-----	-----	-----	-----	5
Gamboa.....	1	-----	1	2	-----
Gatun.....	4	-----	4	6	4
Margarita Point.....	-----	-----	-----	-----	1
Naos Island.....	2	-----	2	2	2
Paraiso.....	4	-----	4	4	4
Pedro Miguel.....	3	-----	3	3	3
Toro Point.....	-----	-----	-----	-----	2
Total.....	373	553	926	900	1,109







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